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oying with DC power for data centers

ould cut power bill, keep centers cool

ess Times - July 7, 2006 by Andrew F. Hamm

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bowels of a nondescript office complex in Newark, Sun Microsystems Inc. is doing vith a small set of blade servers that could change the way we think about electricity in the

a mock data center on DC - direct current - power. If successful, the approach could save lectricity and trim new construction costs for data centers across the country. The \$2 million funded by the California Energy Commission has attracted attention across Silicon Valley, States and the world.

> Using direct current to power the servers allows a higher voltage to be used. It also skips the usual conversion of DC to AC - alternating current - that most electrical products in the United States require.

The thinking is that since power is lost every time you convert the voltage, eliminating that step will save power. Also, heat that is created every time power is converted - an issue in data centers - is reduced.

"The theory is that the servers get better, there is less heat generated, so it costs less to cool," said Dennis Symanski, manager of Sun's worldwide compliance office.

Data center operators often leave much of the empty because a room filled with hot-running blade servers would overwhelm the building's ems.

e goal is to fill up these empty spaces by creating servers that emit less heat. A secondary but al is to reduce the overall electricity costs of operating a data center.

ta center uses 50 to 100 times more electricity than a comparable-size office building, mbers show.

has gained the attention of such regional tech giants as Cisco Systems Inc., Intel Corp.,

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